

## ABSTRACT OF THE DISCLOSURE

A shock detection device can detect a slight shock without mis-detection of shocks due to noise in a shock sensor signal. The shock detection device is adapted to output a shock detection signal for stopping writing into a disk medium when a shock applied to the disk medium satisfies a prescribed condition. The shock detection device includes a shock sensor that detects a shock applied to the disk medium and outputs a corresponding shock sensor signal, a variable shock detection slice value setting part that sets a threshold for the shock sensor signal based on a position error signal, a shock sensor signal correction part that outputs, as a new shock sensor signal, a signal by removing noise generated in synchronization with writing from the shock sensor signal, and a shock determining part that outputs a shock detection signal when the shock sensor signal exceeds the variable shock detection slice value.

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